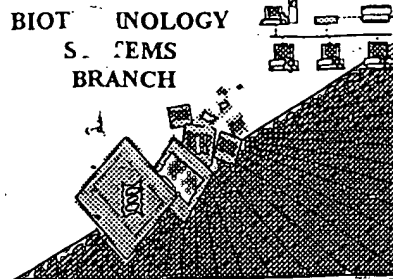


RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/981,206

Source: OIPE

Date Processed by STIC: 11/2/01

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

OIFE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/981,206

DATE: 11/02/2001

TIME: 15:26:24

Input Set : A:\es.txt

Output Set: N:\CRF3\11022001\I981206.raw

Does Not Comply
Corrected Diskette Needed

Errors on pp. 1-3

3 <110> APPLICANT: Achilefu, Samuel I.
 4 Rajagopalan, Raghavan
 5 Dorshow, Richard B.
 6 Bugaj, Joseph E.
 8 Mallinckrodt Inc.

10 <120> TITLE OF INVENTION: Carbocyanine Dyes For Tandem, Photodiagnostic
 11 and Therapeutic Applications

13 <130> FILE REFERENCE: MRD-74

C--> 15 <140> CURRENT APPLICATION NUMBER: US/09/981,206

16 <141> CURRENT FILING DATE: 2001-10-17

W--> 18 <150> PRIOR APPLICATION NUMBER: *Do not respond if no other prior application include*

W--> 19 <151> PRIOR FILING DATE:

21 <160> NUMBER OF SEQ ID NOS: 8

23 <170> SOFTWARE: PatentIn Version 3.1

25 <210> SEQ ID NO: 1

26 <211> LENGTH: 8

27 <212> TYPE: PRT

28 <213> ORGANISM: Artificial Sequence

30 <220> FEATURE:

W--> 31 <221> NAME/KEY: MOD RES → put underscore between MOD + RES → MOD_RES

32 <222> LOCATION: (1)...(8)

33 <223> OTHER INFORMATION: Xaa at location 1 represents D-Phe. Artificial sequence is completely synthesized.

35 <223> OTHER INFORMATION: Xaa at locations 2 and 7 represents Cys with an intramolecular disulfide bond between two Cys amino acids. Artificial sequence is completely synthesized.

38 <223> OTHER INFORMATION: Xaa at location 4 represents D-Trp. Artificial sequence is completely synthesized.

41 <400> SEQUENCE: 1

W--> 42 Xaa Xaa Tyr Xaa Lys Thr Xaa Thr

43 1 5

47 <210> SEQ ID NO: 2

48 <211> LENGTH: 8

49 <212> TYPE: PRT

50 <213> ORGANISM: Artificial Sequence

52 <220> FEATURE:

W--> 53 <221> NAME/KEY: MOD RES

54 <222> LOCATION: (1)...(8)

55 <223> OTHER INFORMATION: Xaa at location 1 represents D-Phe. Artificial sequence is completely synthesized.

57 <223> OTHER INFORMATION: Xaa at locations 2 and 7 represents Cys with an intramolecular disulfide bond between two Cys amino acids. Artificial sequence is completely synthesized.

61 <223> OTHER INFORMATION: Xaa at location 4 represents D-Trp. Artificial sequence is completely synthesized.

63 <223> OTHER INFORMATION: Xaa at location 8 represents Thr-OH. Artificial sequence is completely synthesized.

64

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/981,206

DATE: 11/02/2001

TIME: 15:26:24

Input Set : A:\es.txt

Output Set: N:\CRF3\11022001\I981206.raw

66 <400> SEQUENCE: 2
W--> 67 Xaa Xaa Tyr Xaa Lys Thr Xaa Xaa
68 1 5
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 11
73 <212> TYPE: PRT
74 <213> ORGANISM: Peptide - invalid; see error summary sheet, item 10
76 <400> SEQUENCE: 3
77 Gly Ser Gly Gln Trp Ala Val Gly His Leu Met
78 1 5 10
81 <210> SEQ ID NO: 4
82 <211> LENGTH: 11
83 <212> TYPE: PRT
84 <213> ORGANISM: Peptide - same
86 <400> SEQUENCE: 4
87 Gly Asp Gly Gln Trp Ala Val Gly His Leu Met
88 1 5 10
92 <210> SEQ ID NO: 5
93 <211> LENGTH: 8
94 <212> TYPE: PRT
95 <213> ORGANISM: Peptide - same
97 <400> SEQUENCE: 5
98 Asp Tyr Met Gly Trp Met Asp Phe
99 1 5
102 <210> SEQ ID NO: 6
103 <211> LENGTH: 8
104 <212> TYPE: PRT
105 <213> ORGANISM: Artificial Sequence
107 <220> FEATURE:
W--> 108 <221> NAME/KEY: MOD RES
109 <222> LOCATION: (1)...(8)
110 <223> OTHER INFORMATION: Xaa at locations 3 and 6 represents Norleucine. Artificial
111 sequence is completely synthesized.
113 <400> SEQUENCE: 6
W--> 114 Asp Tyr Xaa Gly Trp Xaa Asp Phe
115 1 5
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 8
120 <212> TYPE: PRT
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
W--> 124 <221> NAME/KEY: MOD RES
125 <222> LOCATION: (1)...(8)
126 <223> OTHER INFORMATION: Xaa at location 1 represents D-Asp. Artificial sequence is
127 completely synthesized.
128 <223> OTHER INFORMATION: Xaa at locations 3 and 6 represents Norleucine. Artificial
129 sequence is completely synthesized.
131 <400> SEQUENCE: 7
W--> 132 Xaa Tyr Xaa Gly Trp Xaa Asp Phe

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/981,206

DATE: 11/02/2001

TIME: 15:26:24

Input Set : A:\es.txt

Output Set: N:\CRF3\11022001\I981206.raw

133 1 5
137 <210> SEQ ID NO: 8
138 <211> LENGTH: 8
139 <212> TYPE: PRT
140 <213> ORGANISM: Artificial Sequence
142 <220> FEATURE:
W--> 143 <221> NAME/KEY: MOD RES
144 <222> LOCATION: (1)...(8)
145 <223> OTHER INFORMATION: Xaa at location 1 represents D-Lys. Artificial sequence is
146 completely synthesized.
148 <400> SEQUENCE: 8
W--> 149 Xaa Pro Arg Arg Pro Tyr Ile Leu
150 1 5

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/981,206

DATE: 11/02/2001

TIME: 15:26:25

Input Set : A:\es.txt

Output Set: N:\CRF3\11022001\I981206.raw

L:15 M:270 C: Current Application Number differs, Replaced Application Number
L:18 M:256 W: Invalid Numeric Header Field, <150> PRIOR APPLICATION NUMBER:
L:19 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:31 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:42 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:53 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:67 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:108 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:114 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:124 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:132 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7
L:143 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:149 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8